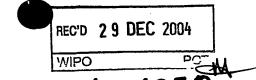


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INTERNATIONAL PRELIMINARY EXAMINATION REPORT 10/52105@

(PCT Article 36 and Rule 70) Applicant's or agent's file reference See Notification of Transmittal of International FOR FURTHER ACTION Preliminary Examination Report (Form PCT/IPEA/416) CGL02/0009W01 Priority date (day/month/year) International application No. International filing date (day/month/year) 23 July 2002 (23.07.2002) PCT/US03/22965 22 July 2003 (22.07.2003) International Patent Classification (IPC) or national classification and IPC IPC(7): A23L 1/105; A23P 1/12 and US CI.: 426/516, 507, 18, 28, 618, 623 Applicant CARGILL, INCORPORATED This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of \mathcal{H} sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of __ sheets. This report contains indications relating to the following items: Basis of the report \mathbf{II} **Priority** Non-establishment of report with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application Date of completion of this report Date of submission of the demand 29 November 2004 (29.11.2004) 14 January 2004 (14.01.2004) Examiner George C. Yeung Imp I MI
Telephone No. (571) 373 Name and mailing address of the IPEA/US Authorized officer Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Form PCT/IPEA/409 (cover sheet)(July 1998)

Facsimile No. (703) 305-3230

Telephone No. (571) 272-1412

INTERNATIONAL PRELIMINARY MINATION REPORT

International application No.	
PCT/US03/22965	

I.	Basi	s of the report					
1.	With	With regard to the elements of the international application:*					
	\boxtimes	the international application as originally filed.					
	\boxtimes	the description:					
		pages 1-11 as originally filed					
		pages NONE, filed with the demand					
	<u> </u>	pages NONE , filed with the letter of					
	\boxtimes	the claims:					
		pages NONE, as originally filed					
		pages NONE , as amended (together with any statement) under Article 19					
		pages NONE, filed with the demand pages 12 and 13, filed with the letter of 21 October 2004 (21.10.2004)					
		, and that the latter of broader 200 (21120.2001)					
	\boxtimes	the drawings:					
		pages NONE , as originally filed					
		pages NONE , filed with the demand					
		pages NONE , filed with the letter of					
		the sequence listing part of the description:					
		pages NONE, as originally filed					
		pages NONE, filed with the demand					
	****	pages NONE, filed with the letter of					
2.		h regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were available or furnished to this Authority in the following language which is:					
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
	H						
	H	the language of publication of the international application (under Rule 48.3(b)).					
	ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
3.	Wit	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the					
٠.	inter	mational preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
		filed together with the international application in computer readable form.					
	\Box	furnished subsequently to this Authority in written form.					
	\sqcap	furnished subsequently to this Authority in computer readable form.					
	同	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the					
	international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing					
		has been furnished.					
4.	\boxtimes	The amendments have resulted in the cancellation of:					
		the description, pages NONE					
		the claims, Nos. NONE					
		the drawings, sheets/fig NONE					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go					
-	لب	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
thi	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
_**	Any i	replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

INTERNATIONAL PRELIMINARY	MINATION REPORT
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International applic No. PCT/US03/22965

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims	1-20	YES			
Tionally (11)		NONE	NО			
	Clai	1.00	YES			
Inventive Step (IS)	Claims	NONE	NO			
	Clanis	NONE				
Industrial Applicability (IA)	Claims	1-20	YES			
	Claims	NONE	NO			
l colution in a corow transporter; transporting the C	ereal mater components -	the steps of treating a cereal material with a process and through the screw transporter; and separating are selected from the group consisting of germ, to a second secon	at icast one			

International application	Yo.
PCT/US03/22965	

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 16 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s):

Claim 16 is indefinite in the recitation of "according to claim 16" since claim 16 depends upon itself.



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P.06/07

CLAIMS

We claim:

- A method for treating a cereal material comprising;
 treating a cereal material with a processing solution in a screw
 transporter; transporting the cereal material through the screw
 transporter (s); and
 separating at least one component from the cereal material wherein the
 components are selected from the group consisting of germ, fiber,
 protein and starch.
- The method according to claim 1 wherein the cereal material is selected from the group consisting of corn, oats, barley, rye, wheat, rice, sorghum and mixtures thereof.
- 3. The method according to claim 1, wherein the screw transporter is selected from the group consisting of a screw extruder and a screw conveyer.
- 4. The method according to claim 1 wherein the cereal material comprises absorbed solvent selected from the group consisting of an aqueous solvent, an organic solvent and mixtures thereof.
- 5. The method according to claim 4 wherein the aqueous solvent is water.
- 6. The method according to claim 4 wherein the solvent comprises at least one compound selected from the group consisting of wetting agents, reducing agents and pH modifiers.
- 7. The method according to claim 1 wherein the processing solution comprises an acid and sulphur dioxide.
- 8. The method according to claim 7 wherein the acid is lactic acid
- The method according to claim 1 wherein the cereal material is treated with processing solution for a period of at least 1 hour.
- 10. The method according to claim 1 wherein the cereal material is treated with processing solution for a period of at least 3 nours.
- 11. The method according to claim 1 wherein the temperature ranges from about 15°C to about 65°C.





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P.07/07

- 12. The method according to claim 1 wherein the processing solution is present in an amount ranging from about 0.30 to about 0.67 m³ of processing solution per metric ton of cereal material (about 2.0 to about 4.5 gallons of processing solution per bushel of cereal material).
- 13. The method according to claim 12 wherein the processing solution is present in an amount that will be completely absorbed by the cereal material.
- 14. The method according to claim 1 wherein more than one screw transporter is utilized.
- 15. The method according to claim 14 wherein discharge from the screw transporter is comminuted.
- 16. The method according to claim 16 wherein the starch is hydrolyzed.
- 17. A method for producing a fermentation feedstock comprising using the starch containing stream produced in accordance with claim 16.
- 18. A method for producing a fermentation feedstock comprising using the hydrolyzed starch containing stream produced in accordance with claim 17.
- 19. A method for using the starch containing stream product of claim 16 as fermentation feedstock.
- 20. A method for using the hydrolyzed starch containing stream of claim 17 as fermentation feedstock.